

CLAIMS

What is claimed is:

1. A remote Venturi valve, comprising:
said remote Venturi valve fluidly connected to a water line and at least one flavor line,
where the motive force of the water in the water line draws at least one essence into the
Venturi valve to combine with the water,
said remote Venturi valve capable of receiving between about 10% to about 50% of water
from said water line through an entry port, and
said remote Venturi valve capable of emitting said combined water and essence from an
exit port into a final beverage container; wherein said remote Venturi valve is capable of
interfacing with an existing valve base.
2. The remote Venturi valve according to claim 1 further comprising a needle control valve
fluidly connected to the essence line, where needle control valve controls flow of essence.
3. The remote Venturi valve according to claim 2 wherein said remote Venturi valve is
further capable of interfacing with an existing valve base within an existing liquid
dispensing structure.
4. The remote Venturi valve according to claim 1 further comprising a non-return valve for
preventing back flow of the essence line.
5. The remote Venturi valve according to claim 1, further comprising an essence inlet port, a
converging nozzle, a first chamber, a second chamber, and a diffuser, the first chamber
being fluidly connectable to the converging nozzle, the second chamber and the diffuser,
and the inlet port being fluidly connectable to the second chamber and the essence line,
where the water flow chamber carries water directed from the water line into the
converging nozzle and where the water flows through the converging nozzle into the first

chamber and through the diffuser creating a low pressure area in the second chamber drawing essence through the inlet port into the second chamber.

6. The remote Venturi valve according to claim 5, further comprising a plurality of bores extending from the essence inlet port to the second chamber, where the plurality of bores carry essence into the second chamber.
7. The remote Venturi valve according to claim 6 where each one the plurality of bores has a diameter of about 0.8 millimeters.
8. The remote Venturi valve according to claim 7 where there are eight bores arranged parallel and in a concentric pattern relative to the first chamber.
9. The remote Venturi valve according to claim 8 where the water and the essence mix in the diffuser.
10. The remote Venturi valve according to claim 9 where the diffuser is located substantially near the dispensing nozzle.
11. The remote Venturi valve according to claim 10 where the first chamber and the second chamber are cylindrical and concentric.
12. The remote Venturi valve according to claim 11 where the water line contains carbonated water.
13. The remote Venturi valve according to claim 11 where the essence contains an anti-foaming agent.

14. The remote Venturi valve according to claim 3 where the means for selectively opening and closing the essence line is a solenoid.
15. The remote Venturi valve according to claim 2 further comprising a means for selectively opening and closing the essence line.
16. A remote Venturi valve, comprising:
an essence inlet port connected to an essence line,
a water entry port connected to a water line and a converging nozzle,
a first chamber, a second chamber, and a diffuser, the first chamber being fluidly connectable to the converging nozzle, the second chamber and the diffuser, and the essence inlet port being fluidly connectable to the second chamber, where the water flow chamber carries water directed from a water line into the converging nozzle and where the water flows through the converging nozzle into the first chamber and through the diffuser creating a low pressure area in the second chamber drawing essence through the inlet port into the second chamber;
said remote Venturi valve capable of receiving between about 10% to about 50% of water from said water line through the water port, and
said remote Venturi valve capable of emitting said combined water and essence from an exit port into a final beverage container; wherein said remote Venturi valve is capable of interfacing with an existing valve base.